UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,698	08/25/2006	Darren Kidney	P30345	4508
7055 7590 11/23/2010 GREENBLUM & BERNSTEIN, P.L.C.			EXAMINER	
1950 ROLAND	CLARKE PLACE		BELLINGER, JASON R	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			3617	
			NOTIFICATION DATE	DELIVERY MODE
			11/23/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)			
	10/590,698	KIDNEY, DARREN			
Office Action Summary	Examiner	Art Unit			
	JASON R. BELLINGER	3617			
The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address			
Period for Reply	VIO OFT TO EVENE A MONTH	(a) an Turny (a) P ()			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 29 O	ctober 2010.				
	action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>13-37</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>13-37</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	or the certified copies not receive	ea.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	такенк Аррисаціон			

Application/Control Number: 10/590,698 Page 2

Art Unit: 3617

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 13-37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 13 is indefinite due to the fact that it is unclear how an end of the limb "points away" from the central annular body; or how the sealing elements "project from" the radially inwardly pointing surface of the limbs. No directional indicators (i.e. radially, axially, etc.) have been provided to clearly define this limitation.

Claim 14 is indefinite due to the fact that it is unclear what element of the invention is used as a base or datum point for the limitation that the sealing elements "project by a same amount" from the radially inwardly pointing surface.

Claims 30 and 37 are indefinite due to the fact that it is unclear how the inner surface of the flexible members "extends" to the cylindrical inner face; or how the sealing elements are "projecting from" the inner surface "toward" the rim. No directional indicators (i.e. radially, axially, etc.) have been provided to clearly define this limitation.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/590,698 Page 3

Art Unit: 3617

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 13-14, 16-17, 22-23, 25-26, 29-31, and 35-37 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Yokohama (JP 32-5354). Figure 4 of Yokohama shows a sealing ring 1 for a wheel having all of the limitations as set forth in the above claims.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 15 and 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokohama (JP 32-5354). Yokohama does not appear to show the free ends of the sealing lips being rounded, nor the bottoms of the grooves being rounded. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to form the free ends of the sealing lips and the bottoms of the grooves with rounded shapes, dependent upon the type of manufacturing process used to create the sealing ring, and further to prevent the free ends of the sealing lips from damaging the bead of the tire during installation and/or use.

Application/Control Number: 10/590,698

Page 4

Art Unit: 3617

- 7. Claims 18-19, 21, 24, and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokohama (JP 32-5354) as applied to claims 13-14, 16-17, 22-23, 25-26, 29-31, and 35-37 above, and further in view of Veux et al. Yokohama does not show the sealing ring 1 including a reinforcing member formed on the central annular body. In Figure 7, Veux et al teaches the use of a sealing ring having a reinforcing member 70 formed on a central body portion. This reinforcing member 70 is a radial elevation or rib on the radially outer side of the body. Therefore, from this teaching, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the sealing ring 1 of Yokohama with a rib, for the purpose of providing reinforcement to the sealing ring.
- 8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yokohama (JP 32-5354) in view of Veux et al as applied to claims 18-19, 21, 24, and 27-28 above, and in further view of Medynski. Yokohama as modified by Veux et al does not show a hollow space provided in the reinforcing member. Medynski teaches the use of a sealing ring 10 having a reinforcing member 15-16 with a hollow space therein. Therefore, from this teaching, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the rib of the sealing ring of Yokohama as modified by Veux et al with a hollow space, for the purpose of reducing the weight of the ring without sacrificing strength or resiliency.

9. Claims 13-17, 22-23, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over GB 787,784 (hereafter Dunlop) in view of DE 1,021,738.

As best understood, the Dunlop reference shows a sealing ring for a wheel having all of the structure as set forth in the above claims, except as follows:

The Dunlop reference does not specify the dimensions of the sealing ring 5 with respect to the tire beads 3. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to form the sealing ring of the reference with dimensions suitable to properly function when inserted into a wheel assembly, i.e. sealing the tire against the rim.

The Dunlop reference does not specify that the deformable sealing elements (adjacent grooves 7) project from an inner surface of the flexible limbs. The German reference teaches the use of sealing elements that project from a surface of a sealing ring 4. Therefore, from this teaching, it would have been obvious to one of ordinary skill in the art at the time of the invention to form the deformable sealing elements of the Dunlop reference as a projection from the inner surface of the flexible limbs as an alternative configuration, in order to increase the sealing effect of the sealing ring by allowing more surface area of the sealing elements to contact the tire beads when installed.

While the Dunlop reference as modified by the German reference does not show the grooves between the sealing elements being rounded or the free ends of the sealing elements being rounded, it would have been obvious to one of ordinary skill in the art at Application/Control Number: 10/590,698

Art Unit: 3617

the time of the invention to form the grooves and free ends in any shape, dependent upon the manufacturing process used, and the aesthetic appearance desired.

Page 6

- 10. Claims 18-19, 21, 24, and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over GB 787,784 (hereafter Dunlop) in view of DE 1,021,738 as applied to claims 13-17, 22-23, and 26 above, and further in view of Veux et al. The Dunlop reference as modified by the German reference does not show the sealing ring 5 including a reinforcing member formed on the central annular body. In Figure 7, Veux et al teaches the use of a sealing ring having a reinforcing member 70 formed on a central body portion. This reinforcing member 70 is a radial elevation or rib on the radially outer side of the body. Therefore, from this teaching, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the sealing ring 5 of the Dunlop reference as modified by the German reference with a rib, for the purpose of providing reinforcement to the sealing ring.
- 11. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over GB 787,784 (hereafter Dunlop) in view of DE 1,021,738 and Veux et al as applied to claims 18-19, 21, 24, 27-28 above, and further in view of Medynski. The Dunlop reference as modified by the German reference and Veux et al does not show a hollow space provided in the reinforcing member. Medynski teaches the use of a sealing ring 10 having a reinforcing member 15-16 with a hollow space therein. Therefore, from this teaching, it would have been obvious to one of ordinary skill in the art at the time of the

Application/Control Number: 10/590,698 Page 7

Art Unit: 3617

invention to provide the rib of the sealing ring of the Dunlop reference as modified by the German reference and Veux et al with a hollow space, for the purpose of reducing the weight of the ring without sacrificing strength or resiliency.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON R. BELLINGER whose telephone number is (571)272-6680. The examiner can normally be reached on Mon - Thurs (9:00-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Morano can be reached on 571-272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason R Bellinger/ Primary Examiner Art Unit 3617